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82-136

WESTFORNET
MONTHLY ALERT
Edition NOV 1982
Item No. 220
File ~~SD 387 .85 No. 83~~

INFORMATION FLOW, TIMBER MANAGEMENT AND THE STAND AND ACTIVITY RECORD CARD SYSTEM

Happy Camp Ranger District
Klamath National Forest

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WESTFORNET
MONTHLY ALERT
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Item No. 220
File SD387 .B5 W3 no.103

INFORMATION FLOW, TIMBER MANAGEMENT, AND THE STAND AND ACTIVITY RECORD CARD SYSTEM

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May 1982

ABSTRACT: This article documents the current method of implementation of the Region 5 Stand and Activity Record Card System on Happy Camp Ranger District, Klamath National Forest. A portion of the information flow needed in management of timber stands is defined. A Record Card system implementation scheme designed to help achieve the needed flow of information is described. The District silvicultural files are described and examples of Record Cards at various stages of the management process presented.
(KEY WORDS: Information Flow, Timber Management, Management Information System)

The purposes of this article are to document current methods of implementation of the Region 5 Stand and Activity Record Card system at Happy Camp and aid in implementation by providing a reference document for personnel. According to the Forest Service Manual, the Record Card system is a silvicultural planning and record-keeping management information system used 1) to document actions and details of actions, 2) to maintain inventory of current conditions, and 3) to schedule activities relating to management of individual timber stands. Portions of the Record Card system are described in detail in FSM 2490.6 R-5 Supplement 232 5/80.

The functional structure of timber management organization at Happy Camp, in general, involves pre-sale silviculture, sale preparation, sale administration, fuel management, and post-sale silviculture. Each of these departments requires certain information to function. If vital information is not available the quality of performance declines. Poor performance early in the management process often causes or compounds problems in later stages. The District has been aware of problems in achieving the information flow needed for effective timber management. A few of the identified causes of these problems are 1) loss of information or lack of information flow within and between departments, 2) differing perceptions of existing and needed information flow, 3) lack of established methods or mechanisms to provide needed

information flow, 4) lack of documentation or lack of adherance to existing information flow networks, 5) disruption caused by personnel changes, and 6) the complexity of timber management processes.

The Stand and Activity Record Card system appears and is reported to be a tool useful for achieving effective timber management. The task at hand then is to define the information flow needed for effective management and design a scheme for implementation of the Record Card system to help achieve the needed flow. This is what has been done. The District identified information flow which needs to occur during management of individual timber stands spanning in time from initial stand identification at the timber sale project planning stage through precommercial thinning of the newly established plantation, and devised a Record Card system implementation scheme to facilitate the needed information flow. This was achieved by a conscious interdisciplinary effort spanning several years and involving all affected District functions.

Figures 1 and 2 (appended) present the current Record Card implementation scheme. Figure 1 is an overview while Figure 2 reveals details of individual tasks. In reference to Figure 2, most file locations (places where information is stored) are self-explanatory. Silviculture files, managed by the Records Keeper, are as follows (only the most prominent locations are listed):

Compartment File - Most information relating to established timber stands is ultimately stored in the Compartment File, by compartment number, by stand number. Information stored includes a summary of all accomplished and planned activities for the stand, regeneration surveys, TSI surveys, unit traverses, activitity cards for treatments, and other records of past treatments.

Orthophotos - Orthophotos of 1:24,000 scale are fitted with mylar overlays of 1) existing regeneration harvest units, 2) planned harvest areas (regeneration and nonregeneration cutting approved in an EA) and 3) topography. Not yet completed are overlays of 4) existing nonregeneration cuts, 5) areas delineated as marginal (not capable or suitable for timber management by EA processes), and possibly 6) existing natural young growth.

Stand Map Index - For each orthophoto there is an index delineating the basic data for existing and planned harvest units. Information such as the sale name, estimated logging date, type of cutting, acres, actual logging date, date planted, productivity class, date stand is established, date precommercially thinned, and estimated date for commercial thinning is recorded.

Compartment Next-Future-Activity List- Information from the Compartment File is summarized in this listing. For each compartment there is a sheet with a line entry for each stand

in the compartment. To the right of the stand number is the following information: sale name and sale unit number; date of latest TSI survey; next TSI work needed; date next TSI work is needed; acres either estimated, ready-mapped or traversed; and possible acceptable methods.

Stand Filing Cross Index- This index converts a sale name and sale unit number to a compartment number and stand number.

Sale File- This file is where information relating to a planned or ongoing timber sale is filed until such time as unit information is filed in the Compartment File (usually near or following completion of the timber sale).

Sale Area Map File- Following closure of a timber sale contract the Supervisors Office sends a reduction of the Sale Area Map to the District Timber Clerk. A copy of this map is kept in the Sale Area Map File. Maps are filed chronologically by sell date.

Figures 3 through 13 present examples of Record Cards at various stages in the timber management process. Points of explanation or emphasis are as follows (most explanatory information is contained in Figure 2):

Figure 3, ID Team Meeting Notes - At a final ID team meeting for a timber sale, a preliminary plan of some sort is modified to become the selected alternative. It is critical to have a record of what was decided, and why, in order to implement the project. The ID team members and particularly the team leader must record this kind of information during the ID meeting. Specialists reports unit-by-unit discussions, and team leader unit-by-unit ID meeting notes are what constitutes a formal or informal "Unit Information EA Appendix".

Figure 4, Stand Card Before Layout - The Forest Service Manual describes the entries on the Stand Card in detail. The planned activities listed in code form are the same as those which are spelled out in the "Prescription" section.

Figure 5, Pre/Post Sale Card Before Layout - This card is designed as a repository for all unit information generated during the selection, preparation, harvest, and slash disposal processes. The card is initiated following approval of the EA, using the formal or informal "Unit Information EA Appendix". It is desirable to have this information transfered to the cards before layout begins, to provide a convenient reference for layout people. Figures 5,6, and 8 refer to the same harvest unit.

Figure 6, Pre/Post Sale Card After Layout - It is very important that information generated during layout is preserved. The Pre/Post Sale Card is one of two primary repositories for this information (the other is the Unit Information Sheet). The Pre/Post Sale Card (and Stand Card) update must be done before appraisal so that an accurate appraisal, including SAI Plan, can be made.

Figure 7, Unit Information Sheet After Layout - This card was created because the Pre/Post Sale Card does not have enough room for all the logging systems data collected during layout. This data is essential for sale appraisal and so the Unit Information Sheet must be done before appraisal. The ready map or computer traverse map is printed on the back of the Unit Information Sheet.

Figure 6 and 7 - Information collected during layout must be entered on these cards so it will be preserved. Unit-by-unit notes taken during layout are essential, in order to be able to fill out these cards. The Pre/Post Sale Cards and Unit Information Sheets stay together from this point on until they are filed together in the Compartment File with the Stand Card.

Figure 8, Pre/Post Sale Card After Sale Administration and Figure 9, Unit Information Sheet After Sale Administration - The maps, comments, and observations of sale administrators and harvest inspectors are very valuable and need to be preserved. The Pre/Post Sale Cards and Unit Information Sheets are a convenient and appropriate repository for such information. The information generated during sale administration is valuable especially because it is often crucial to appropriate planning and management of the stands following harvest. What treatments are needed on units and portions of units change from what was planned because of what actually happened on the ground. In addition expected dates for availability of units and parts of units for needed treatments change repeatedly during sale administration and fuel treatment. The Record Card system cannot be expected to provide early notification and periodic update about what treatments might be appropriate and about what might be available for burning, planting, and other activities. The administration-fuels-reforestation interaction required for effective management is complex and use of the cards cannot be expected to master these scheduling problems or substitute for day-to-day contact between departments.

Figure 10, BD Card After Treatment - The BD Card is used 1) as a planning document to delineate needed work on each unit; 2) as a repository for unit-specific information required in Burn Plans; 3) as a place to record treatments, results, and expenditures for Fuels Management records; and 4) as a record of unit-specific treatment information which is passed on and

retained with the Stand Card in the Compartment File. The Burn Plan under which the unit is covered contains general information relating to a group of units such as prescribed fire behavior, fire prescription; and, firing, holding, and mop-up plans. If a unit has special requirements which differ from that listed in the Burn Plan, they would be listed on the BD Card for that unit. This particular example does not illustrate much utilization of the card for planning purposes nor a map or sketch that delineates anything of significance such as areas tractor piled versus broadcast burned, or areas with poor cunsumption versus good consumption.

Figures 11 and 12, Reforestation and TSI Cards After Treatment - Traverse maps are used if available.

Figure 13, Stand Card After Treatments - This card shows how stand records might be collated onto the Stand Card. Since the Record Card System has only recently been instituted, most harvest units do not have Stand Cards and units that do, do not have stand information summarized as in this example.

In summary, the manner in which the Record Card system is being used to help achieve a portion of the information flow needed for effective timber management has been presented. The system requires recordation of pertinent information on cards and the transfer of these cards from one file location to another. Involved individuals disagree less on what information flow is needed than on how to achieve it. The system presented is not static, but neither is it whimsical. There are reasons for things being done as presented. New ideas and better ways will no doubt arise. The challenge is to see if personnel can each do their part to help the system work.

LIST OF FIGURES

1 Record Card Flowchart

2 Information Flow for Selected Tasks

3 ID Team Meeting Notes

4 Stand Card Before Layout

5 Pre/Post Sale Card Before Layout

6 Pre/Post Sale Card After Layout

7 Unit Information Sheet After Layout

8 Pre/Post Sale Card After Sale Administration

9 Unit Information Sheet After Sale Administration

10 BD Card After Treatment

11 Reforestation Card After Treatment

12 TSI Card After Treatment

13 Stand Card After Treatments

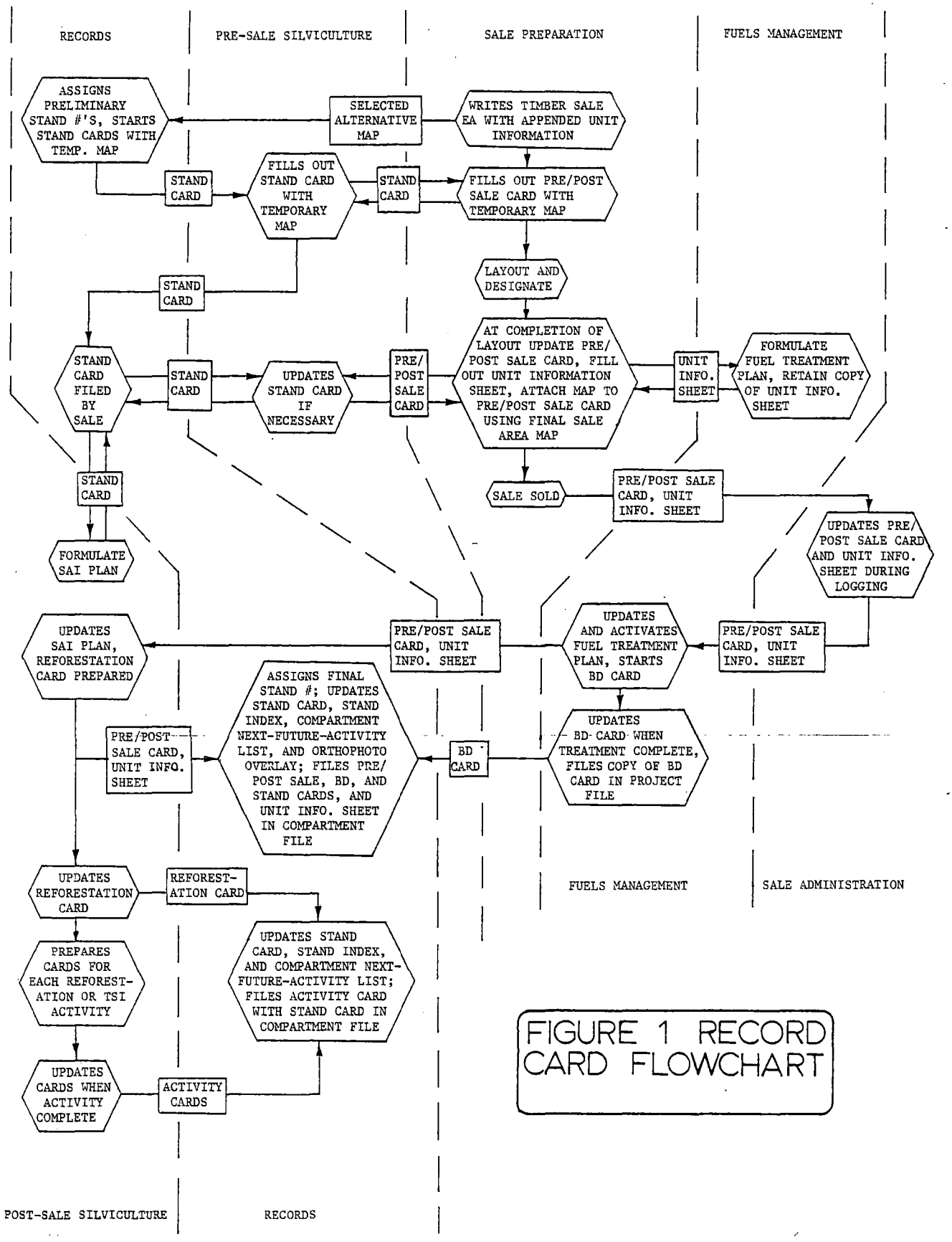

RECORDS
PRE-SALE SILVICULTURE
SALE PREPARATION
FUELS MANAGEMENT
ASSIGNS PRELIMINARY STAND #'S, STARTS STAND CARDS WITH TEMP. MAP
SELECTED ALTERNATIVE MAP
WRITES TIMBER SALE EA WITH APPENDED UNIT INFORMATION
STAND CARD
FILLS OUT STAND CARD WITH TEMPORARY MAP
STAND CARD
FILLS OUT PRE/POST SALE CARD WITH TEMPORARY MAP
LAYOUT AND DESIGNATE
STAND CARD
STAND CARD FILED BY SALE
STAND CARD
UPDATES STAND CARD IF NECESSARY
PRE/POST SALE CARD
AT COMPLETION OF LAYOUT UPDATE PRE/POST SALE CARD, FILL OUT UNIT INFORMATION SHEET, ATTACH MAP TO PRE/POST SALE CARD USING FINAL SALE AREA MAP
UNIT INFO. SHEET
FORMULATE FUEL TREATMENT PLAN, RETAIN COPY OF UNIT INFO. SHEET
STAND CARD
SALE SOLD
PRE/POST SALE CARD, UNIT INFO. SHEET
FORMULATE SAI PLAN
UPDATES PRE/POST SALE CARD AND UNIT INFO. SHEET DURING LOGGING
UPDATES SAI PLAN, REFORESTATION CARD PREPARED
PRE/POST SALE CARD, UNIT INFO. SHEET
UPDATES AND ACTIVATES FUEL TREATMENT PLAN, STARTS BD CARD
PRE/POST SALE CARD, UNIT INFO. SHEET
PRE/POST SALE CARD, UNIT INFO. SHEET
ASSIGNS FINAL STAND #; UPDATES STAND CARD, STAND INDEX, COMPARTMENT NEXT-FUTURE-ACTIVITY LIST, AND ORTHOPHOTO OVERLAY; FILES PRE/POST SALE, BD, AND STAND CARDS, AND UNIT INFO. SHEET IN COMPARTMENT FILE
BD CARD
UPDATES BD CARD WHEN TREATMENT COMPLETE, FILES COPY OF BD CARD IN PROJECT FILE
FUELS MANAGEMENT
SALE ADMINISTRATION
UPDATES REFORESTATION CARD
REFOREST-ATION CARD
UPDATES STAND CARD, STAND INDEX, AND COMPARTMENT NEXT-FUTURE-ACTIVITY LIST; FILES ACTIVITY CARD WITH STAND CARD IN COMPARTMENT FILE
PREPARES CARDS FOR EACH REFOREST-ATION OR TSI ACTIVITY
UPDATES CARDS WHEN ACTIVITY COMPLETE
ACTIVITY CARDS
POST-SALE SILVICULTURE
RECORDS

FIGURE 1 RECORD CARD FLOWCHART

ACTIVITY
Interdisciplinary Developement, Evaulation, and Selection of Alternatives

METHOD: Preliminary project plan is altered to provide optimum feasible mix of products, risks, impacts and effects. This is usually done in an interdisciplinary setting where project specifications are decided upon by the ID team of which the decision-maker is a part. Decisions and reasoning behind the decisions are recorded during the meeting.

INPUTS

ITEM:	OBTAINED FROM:
1. resource characteristics	1. Specialists Project Folder
2. road feasibility	2. Engineering Project Folder
3. preliminary project plan	3. Sale Prep Project Folder-Position Statement

OUTPUTS

ITEM:	DELIVERED TO:
1. selected treatments for project area including management requirements and timetables to carry out project.	1. Sale Prep Project Folder - Draft EA (ID team meeting notes)
2. description of units selected for treatment including silvicultural intent, marking prescription, boundary locations, special considerations for marking, planting. TSI, fuels, water and other resources; and rationale	2. Sale Prep Project Folder-Unit Information EA Appendix

ACTIVITY
EA Published

METHOD: Project plan which documents selected treatments and how selection was made is approved by appropriate line officer.

INPUTS

ITEM:	OBTAINED FROM:
1. objectives, issues, concerns, affected environment, evaluation criteria, alternatives considered, effects of implementation, eval. of alternatives, preferred alt., mgt. req., consultation	1. Sale Prep Project Folder-Draft EA (ID Team Notes), Specialists Reports.

OUTPUTS

ITEM:	DELIVERED TO:
1. an approved project plan (see EA table of contents)	1. District EA File; Resources EA File; Sale Prep Project Folder - EA; Engineering Project Folder; S.O.
2. EA appendices including unit information, rating work sheets, alternatives considered, specialists reports, etc.	2. Sale Prep Project Folder - EA Appendices
3. selected alternative map	3. Records Keeper - Sale File

ACTIVITY
Preliminary Stand Number Assigned, Stand Card Started.

METHOD: Proposed harvest units for the sale are assigned by the Records Keeper in the format of 000-000. The first segment is the compartment number and the second segment is 500 to 699 for regeneration cuts and 700 and on up for intermediate cuts. The proposed units are entered on the Orthophoto Overlay of Planned Harvest Units, on the Stand Index, and on the Compartment Next Future Activities List. Temporary map of unit is attached to Stand Card and some of the heading entries filled in.

INPUTS

ITEM:	OBTAINED FROM:
1. selected alternative map with cutting method	1. Sale Prep Project Folder - EA

OUTPUTS

ITEM:	DELIVERED TO:
1. partially filled out Stand Cards	1. Silviculturist Project Folder
2. planned harvest units	2. Records Keeper Orthophoto Overlay of Planned Harvest Units, Stand Index, and Compartment Next-Future-Activities List

ACTIVITY
Stand Cards Filled Out

METHOD: All silvicultural information for a selected unit is entered on Stand Card by the silviculturist on the ID Team, including location, slope, aspect, site class, acres, elevation, forest type, soil, existing & planned vegetation aggragations, prescription, and planned activities (by month, year, & method). Card is signed by the preparer.

INPUTS

ITEM:	OBTAINED FROM:
1. stand history & composition and site characteristics	1. Specialist (silvi) Project Folder
2. treatment prescription	2. Sale Prep Project Folder - Unit Information EA Appendix.
3. partially filled out Stand Cards	3. Records Keeper - Sale File

OUTPUTS

ITEM:	DELIVERED TO:
1. Stand Card for each stand containing prescription, planned activities by fiscal year, & existing and planned vegetation aggragations.	1. Records Keeper-Sale File

ACTIVITY
Timber Harvest Activity Record Care (Pre/Post Sale Card) is Filled Out.

METHOD: All existing unit information for a selected unit is entered on the Pre/Post Sale Card by the ID team leader, including location, acres, sale name, comp. #, stand #, boundary locations and reasoning, marking prescription, silvicultural intent, coordination requirements, and special considerations for marking, planting, fuels, and other resources. A temporary map is attached. The card is signed by the preparer.

INPUTS

ITEM:	OBTAINED FROM:
1. treatment & tentative method for achievement, unit boundary locations & reasoning, marking prescrip., silvicultural intent, coordination requirements, special considerations for marking, planting, fuels and other resources	1. Sale Prep Project Folder - Unit Information EA Appendix; Silviculturist Project Folder - Stand Cards.

OUTPUTS

ITEM:	DELIVERED TO:
1. Pre/Post Sale Card for each stand containing all unit information	1. Sale Prep Project Folder-Pre/Post Sale Cards

ACTIVITY
Unit Layout and Designation

METHOD: Flag, tag, & map units; designate timber; run profiles as needed; (see marking crew instructions) determine resource characteristics previously unidentified such as landslides, shallow soils, cultural sites etc.; collect logging systems and fuel treatment data such as skidding pattern, extra skidding distance, extra endlinings, yarding pattern, # of settings, max. yarding distance, # tailtrees, intermediate supports, chains hand line, chains tractor line, acres by type of burning etc.; and examine stands as required. This information is collected on a unit by unit basis.

INPUTS

ITEM:	OBTAINED FROM:
1. treatment intent and tentative method for achievement, unit boundary locations & reasoning, marking presc., coordination requirements, special considerations	1. Sale Prep Project Folder-Pre/Post Sale Cards

OUTPUTS

ITEM:	DELIVERED TO:
1. traverse map, acres, profiles, unit characteristics previously unidentified, logging systems and fuel treatment data, stand exam data	1. Sale Prep Project Folder - Unit Layout Notes

ACTIVITY
Fill Out Unit Information Sheets and Update Pre/Post Sale Cards.

METHOD: Information generated during lay is entered on the Pre/Post Sale Cards and Unit Information Sheets by layout forester or marking crew foreman. Traverse map and profile printouts are attached to Unit Information Sheet, and updated. Pre/Post Sale Card is initialed by preparer (or supervisor). The appropriate portion of the final Sale Area Map is attached to each Pre/Post Sale Card.

INPUTS

ITEM:	OBTAINED FROM:
1. traverse map, profiles, unit characteristics previously unidentified, logging systems and full treatment data, stand exam data,	1. Sale Prep Project Folder-Unit Layout Notes

OUTPUTS

ITEM:	DELIVERED TO:
1. Pre/Post Sale Cards containing harvest unit information obtained during layout, changes in harvest plan made during layout, and the degree of implementation of the prescription and boundaries.	1. Sale Prep Project Folder-Pre/Post Sale Cards
2. Unit Information sheets containing logging systems & fuel treatment data needed for appraisal, profiles, traverse map, and results of stand exam.	2. Sale Prep Project Folder-Unit Information Sheets

ACTIVITY
Update Stand Cards

METHOD: Stand Card is revised by the silviculturist to include changes which occurred during layout. The appropriate portion of the final Sale Area Map is attached to each Stand Card.

INPUTS

ITEM:	OBTAINED FROM:
1. Changes from original plan which occurred during layout, information generated during layout, information generated during layout.	1. Sale Prep Project Folder-Pre/Post Sale Cards
2. final Sale Area Map	2. Sale Prep Project The Folder-Final Sale Area Map

OUTPUTS

ITEM:	DELIVERED TO:
1. Stand Cards containing revised list of planned activities by fiscal year, revised list of unit characteristics, & final map	1. Records Keeper-Sale File

ACTIVITY
Planned Harvest Overlay and Stand Index are Updated.

METHOD: Records Keeper updates Planned Harvest Overlay and Stand Index based on updated Stand Cards.

INPUTS

ITEM:	OBTAINED FROM:
1. Final stand location, size, prescription, estimated harvest date.	1. Records Keeper-Sale File, Stand Cards

OUTPUTS

ITEM:	DELIVERED TO:
1. updated unit locations, sizes, prescriptions, estimated harvest dates	1. Records Keeper-Planned Harvest Orthophoto Overlay, Stand Index

ACTIVITY
Brush Disposal/Fuel Treatment Plan Formulated

METHOD: Overall costs by unit to do the work called for in the EA are estimated by Fuels Management Officer. This is often done concurrently with formulation of SAI plan.

INPUTS

ITEM:	OBTAINED FROM:
1. fuel treatment needs by unit	1. Sale Prep Project Folder-EA, Unit Information Sheets; Fuels Management Project Folder
2. changes from original plan which occurred during layout, information generated during layout	2. Sale Prep Project Folder-Unit Info Sheets
3. site prep work to be performed by B-D work force with K-V financing.	3. Reforestation Project Folder-SAI Plans

OUTPUTS

ITEM:	DELIVERED TO:
1. brush disposal, fuel treatment and site preparation work to be performed by fiscal year including costs.	1. Sale Prep Project Folder-Fuel Treatment Plan; Fuels Management Project Folder-Fuel Treatment Plan

ACTIVITY
Sale Area Improvement Plan Formulated

METHOD: Overall costs by unit to carry out prescribed treatments are estimated and adjusted for inflation (see Appendix). This is done by the silviculture specialist on the ID team, the Reforestation Forester, or Stand Tending Forester. Other resource treatment costs are estimated by the respective specialists and submitted to the person formulating the SAI plan.

INPUTS

ITEM:	OBTAINED FROM:
1. silvicultural treatment needs by unit	1. Records Keeper-Sale File, Stand Cards; Silviculturist Project Folder
2. success of past management in the area	2. Records Keeper-Compartment File (Site Prep, Reforestation, and TSI records)
3. other resource treatment needs	3. Other resource Project Folders

OUTPUTS

ITEM:	DELIVERED TO:
1. dollars to collect to perform prescribed treatments (timber)	1. Sale Prep Project Folder-SAI Plan; Reforest. Project Folder-SAI Plans
2. site prep work to be performed by B-D work force with K-V financing	2. Fuels Mgt. Project Folder-Fuel Treatment Plan
3. dollars to collect to perform prescribed treatments (other resources)	3. Sale Prep Project Folder-SAI Plan; approp. resource Project Folder
4. Stand Card	4. Records Keeper-Sale File, Stand Cards

ACTIVITY
Sale Appraisal

METHOD: Contract package is prepared including work to be done and products to by sold. Minimum bid is determined by subtracting the cost to carry out the work from the value of fiber sold.

INPUTS

ITEM:	OBTAINED FROM:
1. estimated logging systems configuration	1. Sale Prep Project Folder-Unit Information Sheets
2. timber volume by species and quality	2. Sale Prep Project Folder-Cruise Data

OUTPUTS

ITEM:	DELIVERED TO:
1. contract package including work to be done, products to be sold, along with estimates of cost and value	1. S.O. timber staff; Sale Prep Project Folder-Appraisal

ACTIVITY
Sale is Sold

METHOD: After proper advertisement and bid opening proceedures, contract is awarded to highest bidder. Pre/Post Sale Cards and Unit Information Sheets are transferred from Sale Prep Project Folder to Sale Administration Project Folder

INPUTS

ITEM:	OBTAINED FROM:
1. bids on the contract	1. Private Enterprise

OUTPUTS

ITEM:	DELIVERED TO:
1. contract package including Pre/Post Sale Cards and Unit Information Sheets	1. Sale Administration Project Folder

ACTIVITY
Sale Administration and Update of Pre/Post Sale Cards and Unit Information Sheets.

METHOD: Planned activities are implemented by means of the Timber Sale Contract. Information about harvest activities is recorded on the Pre/Post Sale Cards and Unit Information Sheets by the sale administrator or harvest inspector including logging system configuration; dates of various phases of logging; comparison of desired or expected results with actual results regarding vegetation aggregation after logging, slash conditions, area logged, etc.; recommendations for treatment; contract number; purchaser; operator; and a record of specialists consultation during administration of harvest. Completed cards for completed units are initialed by preparer (or supervisor) and sent to Fuels Management.

INPUTS

ITEM:	OBTAINED FROM:
1. information treatment requirements, treatment intent and rationale, resource considerations, possible and/or appraised logging configurations, and possible purchaser-negotiated work desired by fuels management or other departments.	1. Sale Administration Project Folder - Appraisal, Contract, Pre/Post Sale Cards, Unit Information Sheets, EA.

OUTPUTS

ITEM:	DELIVERED TO:
1. Pre/Post Sale Cards and Unit Information Sheets containing information about what has actually happened on the ground, resultant conditions, and recommendations for post harvest treatment	1. Fuels Management Project Folder - Pre/Post Sale Cards, Unit Information Sheets

ACTIVITY
Update and Activate Brush Disposal/Fuel Treatment

METHOD: Plans are revised based on what needs to be done and the money & manpower available to do it. Plan implementation is commenced. Pre/Post Sale Cards and Unit Information Sheets are sent to Reforestation with comments and predictions of completion dates

INPUTS

ITEM:	OBTAINED FROM:
1. information on what was planned	1. Fuels Management Project Folder - BD Plan/ Fuel Treatment Plan
2. information about what has actually happened on the ground, resultant conditions and treatment needs, and sale administrator recommendations	2. Sale Administration Project Folder - Pre/Post Sale Cards, Unit Information Sheets

OUTPUTS

ITEM:	DELIVERED TO:
1. updated BD/Fuel Treatment Plan	1. Fuels Management Project Folder-BD/Fuel Treatment Plan
2. Pre/Post Sale Cards and Unit Information Sheets containing information about what has actually happened on the ground, resultant conditions and treatment needs, and sale administration & fuels management recommendations.	2. Reforestation Project Folder-Pre/Post Sale Cards and Unit Information Sheets

ACTIVITY
Sale Area Improvement Plan is Updated and Reforestation Card Prepared

METHOD: The list of treatments needed is updated based on what actually occured on the ground. Costs to carry out these treatments are recalculated using current data and assumptions. The SAI Plan is revised if the sale is not closed. The revision is routed through the Timber Clerk. A Reforestation Card is started for each unit. Pre/Post Sale Cards and Unit Information Sheets are sent to Records Keeper with comments on how needed treatments differ from what is called for on the Stand Record Card.

INPUTS

ITEM:	OBTAINED FROM:
1. information about what was planned	1. Reforestation Project Folder-SAI Plan
2. changes in treatment from what was originally planned	2. Fuels Management Project Folder-Pre/Post Sale Cards and Unit Information Sheets

OUTPUTS

ITEM:	DELIVERED TO:
1. Revised SAI Plan	1. Timber Clerk and Reforestation Project File-SAI Plan
2. Pre/Post Sale Cards and Unit Information Sheets information about what has actually happened on the ground, resultant conditions, sale admin. and fuels recommendations, and an updated list of needed treatments	2. Records Keeper-Sale File

ACTIVITY
Stand Record Card Update

METHOD: The final stand number is assigned (0-399 regen., 400-499 intermediate). Records Keeper uses Pre/Post Sale Card and Unit Information Sheet to update Stand Card, Stand Index, Stand Filing Cross Index, and Compartment Next-Future-Activities List. The stand is plotted on the Existing Harvest Unit Orthophoto Overlay and deleted from the Planned Harvest Unit Overlay. The Pre/Post Sale Card and Unit Information Sheet is filed with the Stand Card in the Compartment File. Some of these tasks are done immediately upon receipt of the Pre/Post Sale Card, but most tasks are deferred until cards for the whole sale arrive at Records Keeping.

INPUTS

ITEM:	OBTAINED FROM:
1. information about what actually happened and what needs to happed and what needs to happen	1. Reforestation Project Folder-Pre/Post Sale Cards Unit Information Sheets

OUTPUTS

ITEM:	DELIVERED TO:
1. updated stand files	1. Records Keeper files

HAPPY TIMBERSALE

NOTES FROM THE SELECTION PROCESS

UNIT 1 SEARCH FOR MORE VERSITILE ACCESS ROAD. COULD SELECT AS DOWNHILL TO EXISTING ROAD CHARLIE WILL CHECK ACCESS

UNIT 2 TRIM SW CORNER. EARTH SCI INPUT IN LAYOUT

UNIT 3 LOG TO EXISTING ROAD ACROSS CREEK. CHECK LOGGING FEASIBILITY.

UNIT 4 DELETE, HIGH SLIDE RISK/HAZ ALSO PART OF PROPOSED SPOTTED OWL CORE AREA

UNITS 33, 34, 36 - DELETE FOR VEG DIVERSITY FOR WILD LIFE HABITAT, THERMAL COVER.

UNIT 35 LAND ING DRIVEWAY/NON-SYSTEM ACCESS, RESHAPE TO MODERATE IMPACT ON SENSITIVE TERRAIN, SLUMP IN EXTREAM WEST OF ORIGINAL SHAPE
EARTH SCI INPUT IN LAYOUT.
PLANTATION REHAB (RE-SITE PREP NORTH OF UNIT)

UNIT 16. HARDWOOD BUFFER ON PROPERTY, FALL AFTER BURNING. UNCUT STRIP FOR BROADCAST INSULATION AND BLOCKAGE FOR ROLLING MATERIAL. ASSUME SECOND BURNING TO CLEANUP UNCUT STRIP

14 CC AS IN INITIAL PROPOSAL/YUM HEAVY FUEL ON WEST FROM ADJAC. UNITS TO REDUCE FIRE HAZARD W/ BURNING TAKE ROAD C SYSTEM ROAD 14' OUT SLOPE

15 DELETE - TO MODERATE LOCAL LAND SLIDE HAZARD.

12 AS IN INITIAL PROPOSAL, EXCLUDE SENSITIVE GROUND OF AT BOTTOM, EARTH SCIENCE ASSISTANCE IN LAYOUT

21 TAKE AS IS - LOWER BOUNDARY IS PLACED FOR LOGGING FEASIBILITY OF UNIT DEFERRED FOR FUTURE ENTRY

32 MODIFY SHAPE FOR BURNING, ~~SHAPE~~ FUELS INPUT IN LAYOUT

24 - 26a PART OF PROPOSED SPOTTED OWL CORE AREA

23 HIGH RISK/HAZARD SLOPE STABILITY AND SPOTTED OWL CORE AREA

30 AS SHOWN, HARPER WILL CHECK VISUAL

27 300' WIDE STRIP ~~FROM~~ ON NORTH PART OF INITIAL UNIT - REDUCED BECAUSE OF VISUAL LEAVE FRINGE OF HARDWOOD ON RIDGETOP

FIGURE 3 ID TEAM MEETING NOTES 1/2

T = Thinning
X = Yarding

Lower East Fork Timber Sale ~~Max Proposal~~ DESCRIPTION OF SELECTED ALT.

2,910M old growth

1. Clearcut (Medium Priority) (21ac) Shortspan-Tractor. Broadcast burn, some tractor pile-site prep-yipping 21x40M = 840M
20 840M
* As in alt A
* Needs geologic input to assess layout & final effect on the 2 draws in unit.

2) Overstory Removal (High Priority) (24ac) ~~Tractor~~ Spot ~~pile~~ Burn
2 250M ~~Progressive thinning~~.
* as alt A
* Assume 100% "BD" underburn following logging
* assume "KV" underburn or other treatment after PCT
* Snag retention is important however, the outside 300 feet of the unit can be made "fire safe" for wind
24ac x 10M = 240M

3) Overstory Removal (Very High Priority) (38ac) Tractor. Spot pile
Precommercial thin 70%
* as alt A
* Cable log
Med/High
* Assume a KV financed tractor yard & treatment of pre-existing slash
38ac x 4 = 152M

4) Clearcut (High Priority) (8 ac) Tractor. Tractor pile, site prep w/ripping. Very difficult plant. Previous logging
8 x 15M = 120M
* As alt A. with slight adjustment to eliminate "jog" in NW corner. Assume tractor endline above road (1/2 ac)

5) Overstory Removal (Very High Priority) Tractor. Spot pile. Precommercial Thin 70%
12ac x 4M = 48M
* As alt A
* Cable log
* Assume a KV collection to rent yarder time to remove pre-existing gull. MUST ~~Coordinated w/ Logging~~

6) Overstory Removal (Medium Priority) (8ac) Shortspan ~~Underburn~~
10 80M
* As alt A
* Assume one "BD" Underburn
* Assume "KV YUM" as in unit 5
8ac x 8M = 64M

7. Overstory Removal (Medium priority) (8ac). Shortspan Spot underburn
- overstory in groups as max 8ac 15M = 120M

8. Clearcut (High priority) (8ac) Shortspan. Broadcast Burn
11 385M
* takes intermediate support * As max
8ac x 38M = 280 M

9. Clearcut (High priority) (8ac) Shortspan. Broadcast burn
11 385M
* difficult plant
* uphill boundary is road. ~~Extend boundary to natural road.~~
* Downhill boundary is common with unit 11 in Mainline GRN
8 Ac x 35M = 280 M

10. ~~Overstory~~ Removal (Medium priority) (51ac) ↓ Underburn, ~~Spot~~
8 80M
~~plant~~ (Hot burn) * Delete most of unit
* Selected portion of Unit 10 would be cleared
* Selected portion is "clump" of old growth
* will take intermediate support
51a x 10M = 510M

11. Thin (~~Yard~~) (High Priority) (18ac) Shortspan. Underburn,
19 114M
Survey
* Delete NW corner, and portion above road
18ac x 6 = 108M

FIGURE 3 ID TEAM MEETING NOTES 2/2

FOREST SERVICE U.S.D.A.

STAND RECORD CARD

(SEE FSM-2496.3)
R-5 2400-205 (REV. 3/77)

COMPARTMENT NUMBER: HUNDREDS | TENS | UNITS

STAND NUMBER: HUNDREDS | TENS | UNITS

BACKLOGS: REGULAR REFOR. | MAINT. REFOR. | THINNING | RELEASE

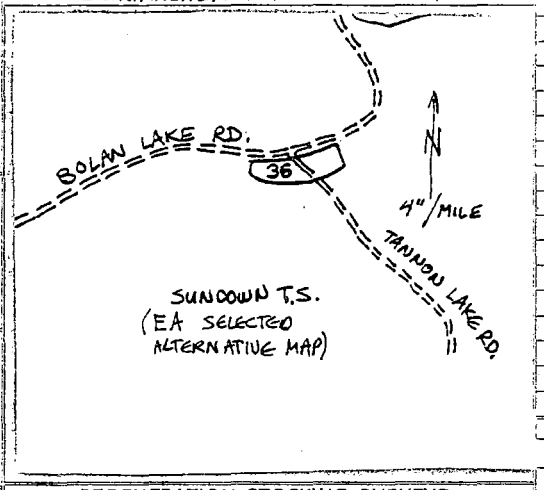
CUFT. SITE CLASS: 1 (225+) | 2 (165-224) | 3 (120-164) | 4 (85-119) | 5 (50-85) | 6 (20-49) | 7 (0-20)

FOREST TYPE: PP | DF | TRUE FIR | HDW. | OTHER

COMPONENT: STANDARD | SPECIAL | MARGINAL | UNSUITABLE | OTHER

SPECIES RECORD: PP | JP | SP | DF | WF | RF | OTHER

LOCATION: COMP NAME TWO BIT; COMP NO. 201
STAND NO. 501; COOR. (E-W) 614; (N-S) 508
T. 4N S. 7W S. 13; COUNTY NO. 33; MAP NO.
CHARACTERISTICS: ACRES 8; ELEV. 5400
ASPECT SW; SLOPE % 20; STRATUM M4N
SITE: INDEX 70; (MEASURED/ESTIMATED); SPECIES WF
REFERENCE SCHUMACHER 407; DUNNING SITE CLASS 1



ACTIVITIES

PRESCRIBED BY	PRESCRIBED MM-YY	DESCRIPTION WORK PROCESS	DESCRIPTION METHOD	PLANNED FUND	PLANNED MM-YY	PLANNED ACRES	ACCOMPLISHED MM-YY	ACCOMPLISHED ACRES	ACCOMPLISHED UNIT.
15	0581	TSE	100	1	0183	8	0581	8	YB
		TMD	510	1	0683				
		HCP	420	—	1087				
		FMP	200	3	0688				
		FBP		3	0988				
		RPP	200	2	0989				
		RCA	817	1	0689				
		RPL	120		0490				
		RCA	168		0990	16			
		RSE	630		0791	8			
		TSD	630		0791				
		RCA	168		0991				
		RSE	630		0792				
		TSD	630		0792				
		SRL	830		0793				
		CRL	630		0794				

HARVESTS: CC | SEED STEP | SR STEP | SEL. | THIN | SANI | OTHER

ACTIVITIES: ACCOMP. / PLANNED
MARK | PLANT | SITE PREP. | PRECOM THIN | RELEASE | SLASH DISP. | EXAM. | OTHER

PLANTING RECORD

SEED LOT NUMBER	M TREES.	NUR.	AGE CLASS	TYPE	TREES / ACRE	MM-YY

REGENERATION STOCKING SURVEYS

SURVEY DATE	P	N	P	N	P	N	P	N

PLANTING: DECADE | YEAR

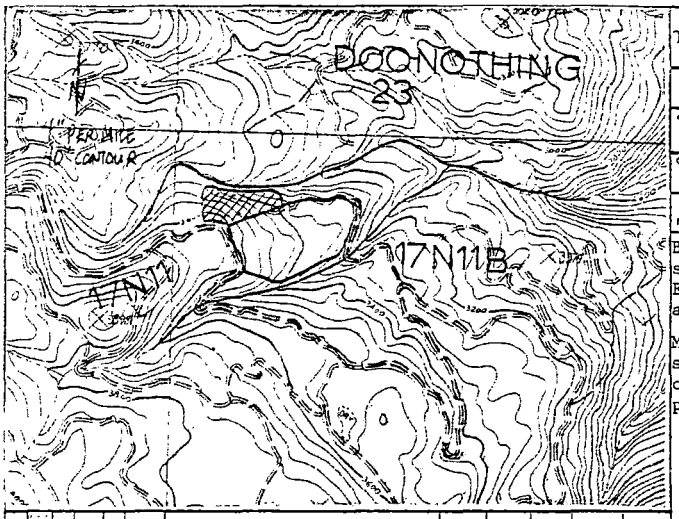
PRESCRIPTION: Part of the stand has been logged, mostly N of the Tannon Lake road. N½ is a multi-storied stand with heavy overstory. S½ is even-size oldgrowth. Prescription is to regenerate with clearcut. Most of the area is relatively flat. Heavy pocket gopher/boomer populations. Heavy recreation use area (junction Tannon-Bolan Lakes roads). Successful plantation critical. Full gopher control procedures recommended.

year	date	activity
0	1987	log (HCP)
1	88	tractor pile (FMP), pile burn (FBP)
2	89	tractor site prep with R-4 Attachment and ripper @ 655 spots per acre(RPP)
2	89	gopher control with site prep spray to control all vegetation, particularly forbs; aerial or tractor boom; atrazine, dalapon, 2,4-D (RCA)
3	90	hand plant DF, RF, IC @458 TPA (70% plantable spots, 65% survival, target 275 TPA @ 12" dia., 240 BA in 50 years) (RPL)
3	90	hand bait gopher control, spring and fall treatments, ½% strychnine on rolled oats (RCA)
4	91	staked plantation survival and brush survey (RSE,TSD)
4	91	hand bait in fall (RCA)
5	92	staked plantation survival and brush survey (RSE,TSD)
6	93	hand spray release; protected and directed; target Arpa, Riby, Cuve, Qusa (SRL)
7	94	release effectiveness survey (CRL)

AGGREGATION DESCRIPTION

AGG NO.	% STAND	LAYER	% COVER	SPECIES COMPOSITION SYMBOL	%	SYMBOL	%	SYMBOL	%	BASIS	B.A./A (FT²)	HT. (FT.)	DBH (IN.)	STEMS / ACRE	GROWTH (FT³)(FT³)	AGE	NOTES
1	50	1	80	W	80	R	10	MC	10	C							
DATE (R-P) 81		2															
		3															
2	50	1	40	W	80	R	10	MC	10	C							
DATE (R-P) 81		2	20	W	90	MC	10			C							
		3															
DATE (R-P)		1															
		2															
		3															
1	100	1	10	D	60	R	30	MC	10	C	2	4	1	290		5	
DATE (R-P) 94		2															
		3															
DATE (R-P)		1															
		2															
		3															
DATE (R-P)		1															
		2															
		3															
DATE (R-P)		1															
		2															
		3															

FIGURE 4 STAND CARD BEFORE LAYOUT



USDA - FOREST SERVICE

TIMBER HARVEST ACTIVITY REGORD-PRESALE DATA

(See R-5 Supplement to FSM 2496.3)

SALE NAME	ACRES	Est. Total Cut
DOONOTHING - 23	15	100 MBF

COMPT. NAME	COMPT. NO.	STAND NOS.
DOOLITTLE	225	504 UNIT 23

CO. CODE	COMP. CODE	FUND	Prod. Class	FOR. TYPE
93	MARG		5	DF

CUTTING METHOD	LOGGING METHOD
NAME: SEED STEP CODE 131	NAME: TRACTOR CODE 420

BOUNDARIES: NW-edge pf existing plantation, N-slope break tp creek (stick to tractor ground), E-road 17N11B, SE-standard buffer on creek, SW-arbitrary (down minor ridge?), W-road 17N11.

MARK: Leave Tree Mark, save best 7 TPA (79 foot spacing,>30% crown ratio, thick barked, top 1/3 of crown intact, >20' to lowest limb. species preference DF).

AGGREGATION DESCRIPTIONS	AG NO.	% STAND	LAYER	% Cover	SPECIES COMPOSITION Symbol	%	Symbol	%	Symbol	%	Basis	B.A./A. (ft.²)	HT. (ft.)	D.B.H. (in.)	STEMS /ACRE	AGE
EXISTING	1	100	1	30	D	60	JP	20	MC	20	C					200+
			2	40	Quva	60	Ceve	30	Qusa	10	C					
			3													
			1													
			2													
			3													
			1													
			2													
			3													
PLANNED	1	100	1	10	D	70	JP	20	MC	20	C	-		-	7	200+
			2	10	JP	60	D	30	S-I	10	C	-	3	-	270	5
			3													
			1													
			2													
			3													
			1													
			2													
			3													

PRESCRIPTION COMPLETED		DESIGNATION COMPLETED	
BY: George T. Brahert	DATE 2/79	BY:	DATE
CRUISE COMPLETED		**Slash Treatment Plan Prepared**	
BY:	DATE	BY:	DATE
K-V- PLAN PREPARED		**APPRAISAL COMPLETED**	
BY:	DATE	BY:	DATE

R5-2400-202 (ISS. 6/77)

COORDINATION INFORMATION

MGMT DIRECTION	TMP Marginal Component; Seed Step, tractor pile and broadcast burn, full plant, overstory removal with small sale in 3-5 years if regen. successful.
WILDLIFE	
REC.&VRM	100' hardwood leave strip along road 17N11 to break horizontal line, broken enough to interplant.
FUELS MGMT	underburn VRM strip, broadcast steep portions after hardwood fell, tractor pile remainder, directional felling adjacent to plantation to reduce slash load.
SOILS	poor soil (serpentine) throughout unit.
Botany	possible sensitive plant populations in wet northern portions of unit.
CULTURAL	
WATER	
SAFETY	
REMARKS	previously salvaged, joint BD/KV financing of tractor pile to be negotiated with purchaser.

E.A.R.	PREPARED BY:	DATE:	APPROVED BY:	DATE:
	D. BOOTHE	5/79	C. HARPER	5/14/79

TIMBER HARVEST ACTIVITY RECORD - POST-SALE DATA

SALE NAME	PURCHASER	CONTRACT NO.

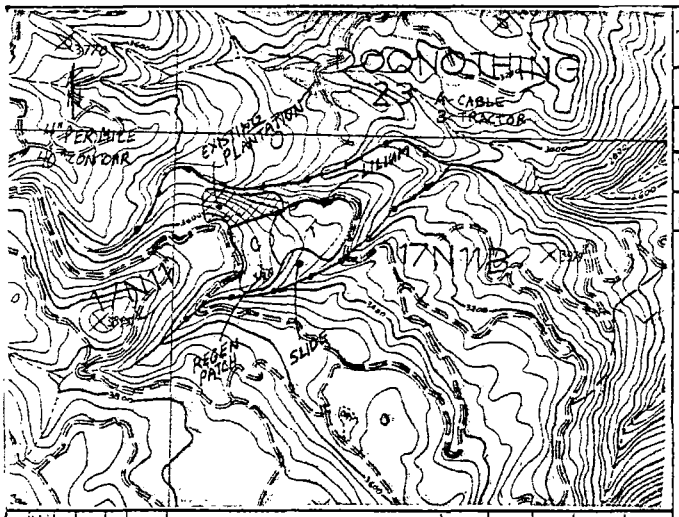
DATE	OPERATOR	COMPT. NO.	STAND NOS.

LOGGING PLAN AND PROGRESS. AND TREATMENT RECOMMENDATIONS:

K-V PLAN REVIEWED		SLASH TREATMENT PLAN ACTIVATED	
BY:	DATE	BY:	DATE

AGGREGATION DESCRIPTIONS AFTER LOGGING	AG NO.	% STAND	LAYER	% Cover	SPECIES COMPOSITION Symbol	%	Symbol	%	Symbol	%	Basis	B.A./A. (ft.²)	HT. (ft.)	D.B.H. (in.)	STEMS /ACRE	AGE
			1													
			2													
			3													
			1													
			2													
			3													
			1													
			2													
			3													

FIGURE 5 PRE/POST SALE CARD BEFORE LAYOUT



USDA - FOREST SERVICE

TIMBER HARVEST ACTIVITY REGORD-PRESALE DATA

(See R-5 Supplement to FSM 2496.3)

SALE NAME		ACRES	Est. Total Cut
DOONOTHING - 23		15	100 MBF

COMPT. NAME	COMPT. NO.	STAND NOS.
DOOLITTLE	225	504 UNIT 23 A & B

CO. CODE	COMP. CORP. MARK	FUND	Prod. Class	FOR. TYPE
93			5	DF

CUTTING METHOD NAME: SEED STEP & CLEARCUT	CODE 131	LOGGING METHOD NAME: TRACTOR & CABLE	CODE 420

BOUNDARIES: NW-edge of existing plantation, N-slope break to creek (stick to tractor ground), E-road 17N11B, SE-standard buffer on creek, SW-arbitrary (down minor ridge?), W-road 17N11.

MARK: Leave Tree Mark, save best 7 TPA (79 foot spacing, >30% crown ratio, thick barked, top1/3 of crown intact, >20' to lowest limb, species preference DF).

SOUTH BOUNDARY ALTERED DUE TO LANDSLIDE - HYDRO. F. JACKSON FIELD CONSULTATION 7/24/79.

WEST PORTION TOO STEEP FOR TRACTOR, CHANGED TO CABLE AND CHANGED TO CLEARCUT (PLANT AGGRASATION TYPE 2) DUE TO PROBABLE LOGGING DAMAGE TO RESIDUAL-SILVI. B. JONES FIELD CONSULTATION 7/13/79.

SOUTHWEST BOUNDARY EXPANDED TO MAKE UP ACRES AND VOLUME FOR DELETED PORTION.

AGGREGATION DESCRIPTIONS

	AG NO.	% STAND	LAYER	% Cover	SPECIES COMPOSITION Symbol	%	Symbol	%	Symbol	%	Basis	B.A./A. (ft.²)	HT. (ft.)	D.B.H. (in.)	STEMS /ACRE	AGE
EXISTING	1	100	1	30	D	60	JP	20	MC	20	C					200+
			2	40	Quva	60	Ceve	30	Qusa	10	C					
			3													
			1													
			2													
			3													
			1													
			2													
			3													
PLANNED	1	60	1	10	D	70	JP	20	MC	20	C	-			7	200+
			2	10	JP	60	D	30	S-I	10	C	-	3	-	270	5
		100	3													
	2	40	1	10	JP	60	D	30	SP-I	10	C	-	3	-	120	5
			2													
			3													
			1													
			2													
			3													

PRESCRIPTION COMPLETED		DESIGNATION COMPLETED	
BY: Gary T. Rinehart	DATE 2/79	BY: A Duncan	DATE 8/79
CRUISE COMPLETED		**Slash Treatment Plan Prepared**	
BY: A Duncan	DATE 9/79	BY:	DATE
K-V PLAN PREPARED		**APPRAISAL COMPLETED**	
BY: Don K. Thom	DATE 10/79	BY: Judy Hahn	DATE 11/79

RS-2400-202 (ISS. 6/77)

COORDINATION INFORMATION

MGMT DIRECTION	TMP Marginal Component; Seed Step, tractor pile and broadcast burn, full plant, overstory removal with small sale in 3-5 years if regen. successful. *CHANGES WITHIN INTENT OF EA – G. HARPER 9/79*
WILDLIFE	
REC. & VRM	100' hardwood leave strip along road 17N11 to break horizontal line, broken enough to interplant.
FUELS MGMT	underburn VRM strip, broadcast steep portions after hardwood fell, tractor pile remainder, directional felling adjacent to plantation to reduce slash load. *PATCH OF REGEN. TO SAVE IF POSSIBLE.*
SOILS	poor soil (serpentine) throughout unit. *REGENERABILITY OF CLEARCUT PORTION OK – B. JONES 7/13/79*
Botany	possible sensitive plant populations in wet northern portions of unit. *DEFINITE PATCH OF LILIUM WIGGINSII ON EDGE OF UNIT, NEEDS PROTECTION – D. MAERCKLEIN 7/13/79*
CULTURAL	
WATER	*ENLARGED BUFFER ON SOUTH TO AVOID SLIDE – F. JACKSON 7/24/79*
SAFETY	
REMARKS	previously salvaged, joint BD/KV financing of tractor pile to be negotiated with purchaser. *PATCH OF REGEN. IN CABLE PORTION TO PROTECT FROM LOGGING DAMAGE AND BURNING IF POSSIBLE*

E.A.R.	PREPARED BY:	DATE:	APPROVED BY:	DATE:
	D. BOOTHE	5/79	G. HARPER	5/14/79

TIMBER HARVEST ACTIVITY RECORD - POST-SALE DATA

SALE NAME	PURCHASER	CONTRACT NO.

DATE	OPERATOR	COMPT. NO.	STAND NOS.

LOGGING PLAN AND PROGRESS. AND TREATMENT RECOMMENDATIONS:

K-V PLAN REVIEWED		SLASH TREATMENT PLAN ACTIVATED	
BY:	DATE	BY:	DATE

AGGREGATION DESCRIPTIONS AFTER LOGGING

AG NO.	% STAND	LAYER	% Cover	SPECIES COMPOSITION Symbol	%	Symbol	%	Symbol	%	Basis	B.A./A. (ft.²)	HT. (ft.)	D.B.H. (in.)	STEMS /ACRE	AGE
		1													
		2													
		3													
		1													
		2													
		3													
		1													
		2													
		3													

FIGURE 6 PRE/POST SALE CARD AFTER LAYOUT

UNIT INFORMATION SHEET

SALE NAME: SNOW BRUSH
UNIT NO.: 14 | 14A
ACRES: 4 | 3
VOLUME: 91 | 68 MBF ESTIMATED
210 | 160 MBF CRUISED
ASPECT: SW
CUTTING METHOD: CLEARCUT
LOGGING METHOD: TRACTOR -

PREPARED BY: A. DURAZO
DATE: 7-16-81
REVIEWED BY: DAVID FORD
DATE: 4-9-81

50.01/ACRE
SNAGS 15

SKIDDING PATTERN: SKID BOTTOM PORTION OF UNIT TO LOWER ROAD

14A

MAXIMUM SKIDDING DISTANCE: 1320' (MAY WANT TO SKID TO INTERSECTION)
% OF UNIT REQUIRING EXTRA APPRAISAL ALLOWANCE FOR SKIDDING IN EXCESS OF 1320': -0-
% OF UNIT REQUIRING EXTRA APPRAISAL ALLOWANCE FOR ENDLINING IN EXCESS OF 75': -0-

CABLE - SHORTSPAN

14

YARDING PATTERN: FAN
NO. OF SETTINGS: ONE
MAXIMUM YARDING DISTANCE: 900'
NO. TAILTREES TO BE RIGGED: TWO
TALLEST TAILTREE REQUIRED: 50'
SPECIAL ANCHORS REQUIRED: N/A

INTERMEDIATE SUPPORTS REQUIRED: N/A

FUEL TREATMENT: BROADCAST BURN

23	CHAINS HANDLINE
9	CHAINS TRACTOR LINE
7	ACRES BROADCAST BURN
—	ACRES UNDERBURN
—	ACRES TRACTOR PILE

POST SALE TREATMENT RECOMMENDATIONS:

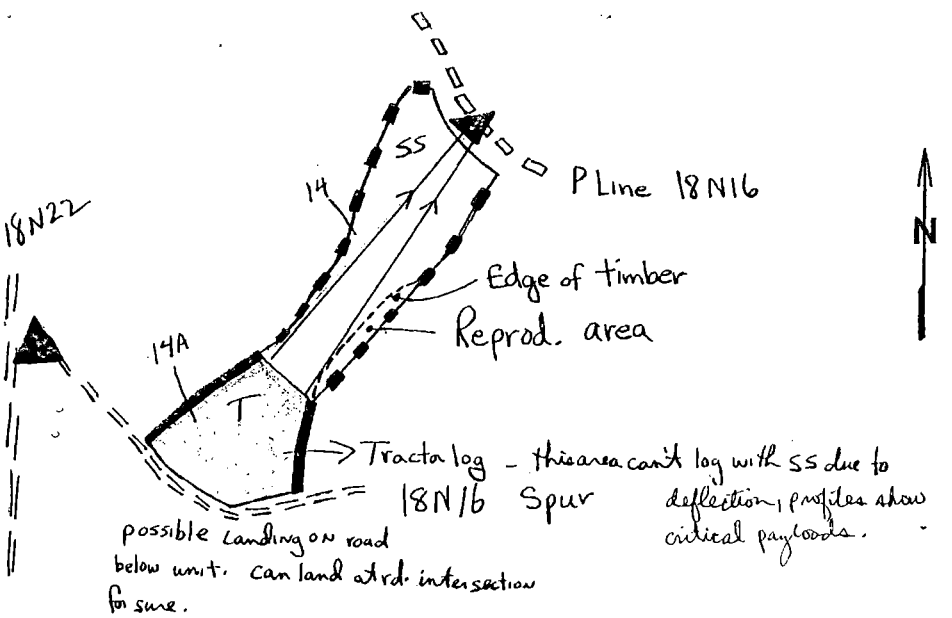
SPECIAL INFORMATION: FALL TIMBER ALONG MIDDLE OF EAST BOUNDARY INTO THE UNIT TO AVOID VIGOROUS REPRD. PATCH.

BREAK BETWEEN TRACTOR AND SS IN ORANGE TAGS - SEE DICK-BRANTIGAM LOGGING PLAN IN FILES

14 → PROFILES SHOW DEFLECTION IS LOST AT ONE POINT - DUE TO SENSITIVE SOILS AS IDENTIFIED IN EA ONE END SUSPENSION WILL BE REQUIRED WHEREVER POSSIBLE (DESIGNATE SR ON S.A.M.)
LATERAL YARDING NOT REQUIRED.

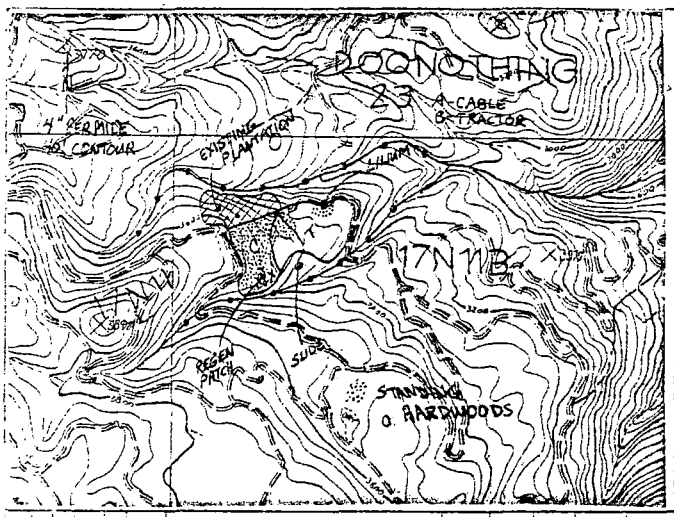
HC PREP FORM 6/80

FIGURE 7 UNIT INFORMATION SHEET AFTER LAYOUT



TL — HL —

PLOT ID: SNOWBRUSH
UNIT: 14
7 ACRES
SCALE: 16" : 1 MILE



USDA - FOREST SERVICE

TIMBER HARVEST ACTIVITY RECORD-PRESALE DATA

(See R-5 Supplement to FSM 2496.3)

SALE NAME	ACRES	Est. Total Cut
DOONOTHING - 23	15	100 MBF

COMPT. NAME	COMPT. NO.	STAND NOS.
DOOLITTLE	225	504 UNIT 23 A&B

CO. CODE	COMP.	FUND	Prod. Class	FOR. TYPE
93	SRSE MARC		5	DF

CUTTING METHOD NAME: SEED STEP & CLEARCUT CODE 13H | LOGGING METHOD NAME: TRACTOR & CABLE CODE 420

BOUNDARIES: NW-edge of existing plantation, N-slope break to creek (stick to tractor ground), E-road 17N11B, SE-standard buffer on creek, SW-arbitrary (down minor ridge?), W-road 17N11.

MARK: Leave Tree Mark, save best 7 TPA (79 foot spacing, >30% crown ratio, thick barked, top1/3 of crown intact, >20' to lowest limb, species preference DF).

SOUTH BOUNDARY ALTERED DUE TO LANDSLIDE - HYDRO. F. JACKSON FIELD CONSULTATION 7/24/79.

WEST PORTION TOO STEEP FOR TRACTOR, CHANGED TO CABLE AND CHANGED TO CLEARCUT (PLANT AGGREGATION TYPE 2) DUE TO PROBABLE LOGGING DAMAGE TO RESIDUAL-SILVI. B. JONES FIELD CONSULTATION 7/13/79.

SOUTHWEST BOUNDARY EXPANDED TO MAKE UP ACRES AND VOLUME FOR DELETED PORTION.

AGGREGATION DESCRIPTIONS	AG NO.	% STAND	LAYER	% Cover	SPECIES COMPOSITION Symbol	%	Symbol	%	Symbol	%	Basis	B.A./A. (ft.²)	HT. (ft.)	D.B.H. (in.)	STEMS /ACRE	AGE
EXISTING	1	100	1	30	D	60	JP	20	MC	20	C					200+
			2	40	Quva	60	Ceve	60	Qusa	10	C					
			3													
			1													
			2													
			3													
PLANNED	1	60	1	10	D	70	JP	30	MC	20	C	-			7	200+
			2	10	JP	60	D	30	S-I	10	C	-	3	-	270	5
		100	3													
	2	40	1	10	JP	60	D	30	SP-I	10	C	-	3	-	120	5
			2													
			3													
			1													
			2													
			3													

PRESCRIPTION COMPLETED		DESIGNATION COMPLETED	
BY: Gary T. Burchard	DATE 2/79	BY: A Duran	DATE 9/79
CRUISE COMPLETED		Slash Treatment Plan Prepared	
BY: A Duran	DATE 9/79	BY:	DATE
K-V PLAN PREPARED		APPRAISAL COMPLETED	
BY: Don K. Thom	DATE 6/79	BY: Judy Cahn	DATE 11/79

R5-2400-202 (ISS. 6/77)

COORDINATION INFORMATION

RIGHT DIRECTION	TMP Marginal Component; Seed Step, tractor pile and broadcast burn, full plant, overstory removal with small sale in 3-5 years if regen. successful. CHANGES WITHIN INTENT OF EA-G. HARPER 9/79
WILDLIFE	
RECREATION	100' hardwood leave strip along road 17N11 to break horizontal line, broken enough to interplant.
FUELS MGMT	underburn VRM strip, broadcast steep portions after hardwood fell, tractor pile remainder, directional felling adjacent to plantation to reduce slash load. PATCH OF REGEN. TO SAVE IF POSSIBLE.
SOILS	poor soil (serpentine) throughout unit. REGENERABILITY OF CLEARCUT PORTION OK - B. JONES 7/13/79
Botany	possible sensitive plant populations in wet northern portions of unit. DEFINITE PATCH OF LILIUM WIGGINSII ON EDGE OF UNIT, NEEDS PROTECTION - D. MAERCKLEIN 7/13/79
CULTURAL	
WATER	ENLARGED BUFFER ON SOUTH TO AVOID SLIDE - F. JACKSON 7/24/79
SAFETY	
REMARKS	previously salvaged, joint BD/KV financing of tractor pile to be negotiated with purchaser. PATCH OF REGEN. IN CABLE PORTION TO PROTECT FROM LOGGING DAMAGE AND BURNING IF POSSIBLE

E.A.R.	PREPARED BY:	DATE:	APPROVED BY:	DATE:
	D. BOOTHE	5/79	G. HARPER	5/14/79

TIMBER HARVEST ACTIVITY RECORD - POST-SALE DATA

SALE NAME	PURCHASER	CONTRACT NO.
DOONOTHING	MARSHALL LUMBER	994369
DATE	OPERATOR	COMPT. NO.	STAND NOS.
1/30/81	MARSHALL LUMBER	225	UNIT 23

LOGGING PLAN AND PROGRESS, AND TREATMENT RECOMMENDATIONS:

LOGGED AS PLANNED. TOTAL VOLUME REMOVED 4/29-30 & 5/1-11/81 114.52 M. DOTY CONSTRUCTION TRACTOR PILED 9 ACRES (#228/Ac) 9/10-15/81 AVE. SLOPE 20%, GREATEST PUSH 45%, HARDWOODS LEFT STANDING AS SHOWN ON MAP (OVER), NEEDS FELL AND BURN AND POSSIBLY DAB EXCEPT VRM STRIP - LITTLY 12/81

K-V PLAN REVIEWED		SLASH TREATMENT PLAN ACTIVATED	
BY: Don K. Thom	DATE 6/81	BY: RD Fritts	DATE 10/81

AGGREGATION DESCRIPTIONS AFTER LOGGING	AG NO.	% STAND	LAYER	% Cover	SPECIES COMPOSITION Symbol	%	Symbol	%	Symbol	%	Basis	B.A./A. (ft.²)	HT. (ft.)	D.B.H. (in.)	STEMS /ACRE	AGE
			1													
			2													
			3													
			1													
			2													
			3													
			1													
			2													
			3													

FIGURE 8 PRE/POST SALE CARD AFTER SALE ADMINISTRATION

UNIT INFORMATION SHEET

SALE NAME: SNOWBRUSH
UNIT NO.: 63
ACRES: 5
VOLUME: 140 MBF ESTIMATED
330 MBF CRUISED 63.48/AC
ASPECT: NW 5 SNAGS
CUTTING METHOD: CLEARCUT
LOGGING METHOD: TRACTOR -

PREPARED BY: AL DURAZO
DATE: 7-15-81
REVIEWED BY: David Ford
DATE: 8-9-81

SKIDDING PATTERN:

MAXIMUM SKIDDING DISTANCE:

% OF UNIT REQUIRING EXTRA APPRAISAL ALLOWANCE FOR SKIDDING IN EXCESS OF 1320':

% OF UNIT REQUIRING EXTRA APPRAISAL ALLOWANCE FOR ENDLINING IN EXCESS OF 75':

CABLE - SHORTSPAN

YARDING PATTERN: Fan pattern

NO. OF SETTINGS: one-three
MAXIMUM YARDING DISTANCE: 400'
NO. TAILTREES TO BE RIGGED: 4-6
TALLEST TAILTREE REQUIRED: 50' ?
SPECIAL ANCHORS REQUIRED: NA

INTERMEDIATE SUPPORTS REQUIRED: NA

FUEL TREATMENT: BROADCAST BURN - NO HANDLINE CONSTRUCTION REQUIRED ALONG BOTTOM SINCE LOWER UNIT WILL BE UNDERBURNED

10 CHAINS HANDLINE
10 CHAINS TRACTOR LINE
5 ACRES BROADCAST BURN
— ACRES UNDERBURN
— ACRES TRACTOR PILE

POST SALE TREATMENT RECOMMENDATIONS:

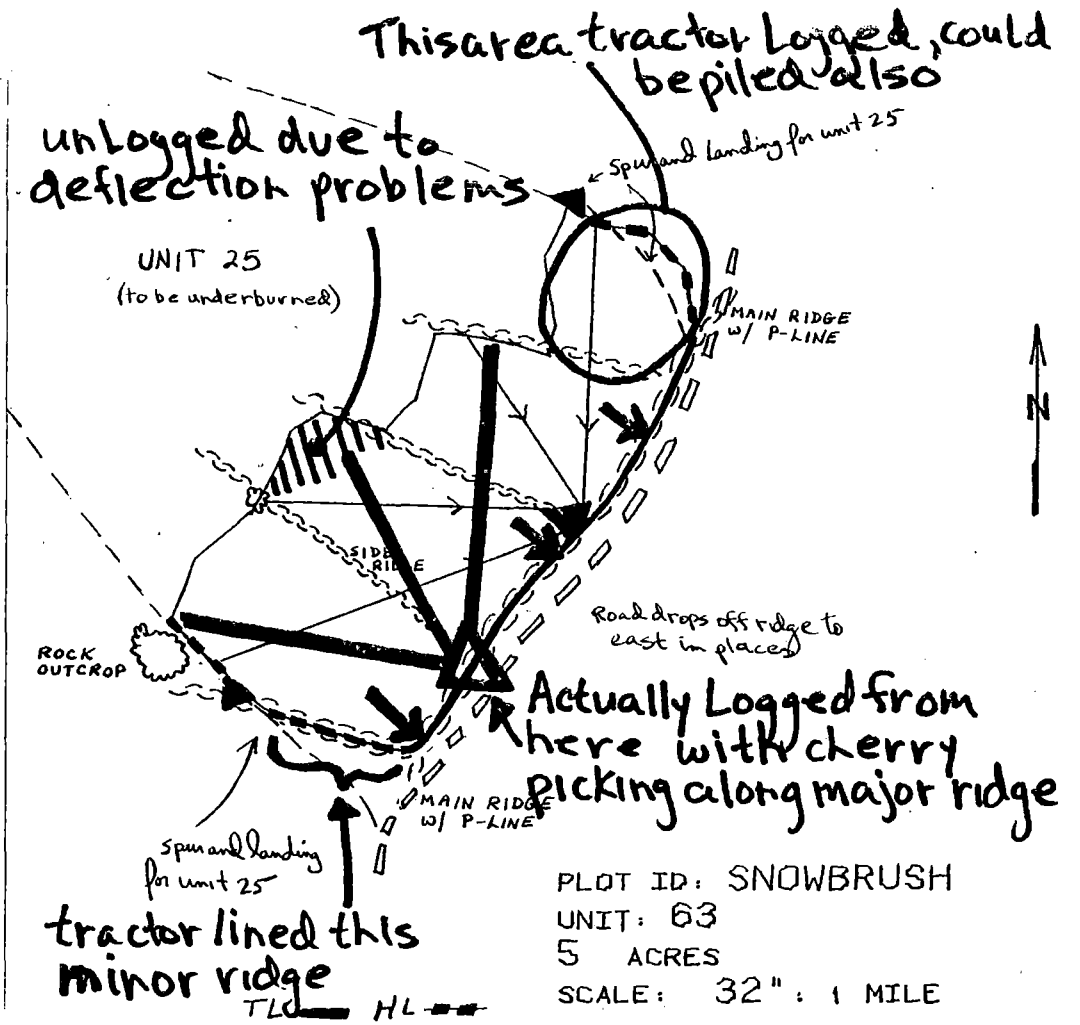
SPECIAL INFORMATION: ALL TIMBER DESIGNATED FOR HARVEST IS MARKED WITH BLUE PAINT - THERE WAS NO INTENT TO SALVAGE OR SAVE ADVANCE REPRODUCTION THROUGHOUT UNIT - SMALL SPUR REQUIRED TO ACCESS UNIT (SEE LOGGING PLAN

log at same time as unit 25 - see unit info sheet for unit 25

designate SW on S.A.M. see unit info sheet for unit 25

HC PREP FORM 6/80

FIGURE 9 UNIT INFORMATION SHEET AFTER SALE ADMIN.


Thisarea tractor Logged, could be piled also
unLogged due to deflection problems
Spur and landing for unit 25
UNIT 25
(to be underburned)
MAIN RIDGE w/ P-LINE
N
SIDE RIDGE
Road drops off ridge to east in places
ROCK OUTCROP
Actually Logged from here with cherry picking along major ridge
MAIN RIDGE w/ P-LINE
Spur and landing for unit 25
tractor lined this minor ridge
TL
HL
PLOT ID: SNOWBRUSH
UNIT: 63
5 ACRES
SCALE: 32" : 1 MILE

USDA-FOREST SERVICE

EST. CY CUT	EST. PERIOD AVAIL. FOR WORK	ACTIVITY CODE
ACTUAL DATE CUT	ACTUAL DATE AVAIL. FOR WORK	POSTED ACTIVE

PROJECT NAME	UNIT NO.	ACRES
HARDWOOD FELL	H-13	10

FUEL TYPE

EST. FUEL TYPE	TYPE	ACRES	TYPE	ACRES
Before Cutting				
After Cutting				
After Treatment				

Elev. 2000-2700

General remarks about unit: Special hazards, burning results, stocking conditions, snags, etc.

Pre-Treatment fuel size and tons per acre

0-.25"	15	1"-3"	52
.25-1"	33	3"+	100

PRE-TREATMENT

AMT. OF FUEL	TONS/ACRE	TYPE OF VEGETATION
	200	HARDWOOD & CONIFER SLASH

DESCRIP. OF HAZARD-Inc. Fuel Conditions on Adjacent Areas

4-6' DEEP SLASH, UNIFORM ARRANGEMENT

1/4 MILE WALKIN

IGNITION BEGAN AT 1500 HRS ON 10/17/81 AT TOP OF UNIT LETTING FIRE BACK DOWN, FIRING HANDLINES AHEAD OF THE FIRE EDGE. WHEN A SAFE BURNED BUFFER WAS ACCOMPLISHED BURNERS WERE DIRECTED TO BURN STRAIGHT DOWN THE HILL FORMING A V PATTERN WITH BURNERS IN THE CENTER AT THE BOTTOM OF THE V. WITH HEAT CONCENTRATED IN THE CENTER OF THE UNIT THE FIRE ON THE EDGES OF THE UNIT WAS PULLED TOWARD THE CENTER. THIS BURN PATTERN SUCCEEDED VERY WELL. HAND PILES WERE BURNED AT THE BOTTOM OF THE UNIT. FUELS UP TO 9" IN DIA. WERE COMPLETELY CONSUMED. THERE WAS SOME SPOTTY CONSUMPTION ON THE SOUTH EDGE OF THE UNIT. COMPLETE FIRING WAS ACCOMPLISHED IN ABOUT 1 HOUR.

0-0.25" 100% CONSUMED
0.25-1" 90% "
1"-3" 70% "
3"+ 50% "

FINAN.

BD%	P&M%	OTHER R&I 100 %

$Disposal Planned	Extra Prot. Planned	Actual Amt. Financed	FY Financed
			81

WORK SCHEDULE-F.S. WORK ONLY

PLANNED WORK		UNIT	NO. UNITS	FY PLAN	PLAN. COST	ACT. COST
FIRELINE CONST.	Machine	Chain	/ DONE UNDER			
	Hand	Chain	< FELLING	CONTRACT		
SNAGFALLING	Outside	Acre				
	Inside	Acre				
CUT LIVE VEGETATION		Acre				
ARRANGE FUEL	Mach. Pile	Acre				
	Hand Pile	Acre				
	Yard & Deck	Acre				
	Lopping	Acre				
BURNING	Broadcast	Acre	10			221
	Spot	Acre				
	Mach. Piles	Acre				
	Decks	Acre				
MECH. TMT.	Chipping	Acre				

SEE ATTACHED SHEETS FOR DETAILED COST ACCOUNTING

K-5100-99
Iss. 8/79

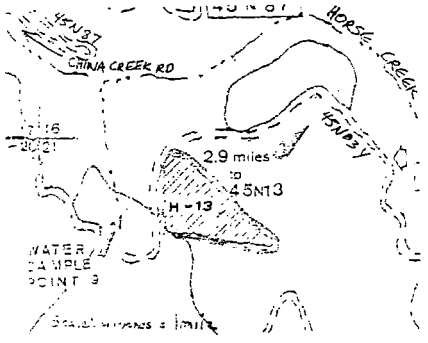
FUELS MANAGEMENT ACTIVITY RECORD

PROJECT NAME	UNIT NO.	COMPT. NAME	COMPT. NO.	STAND NO.
HARDWOOD FELL	H-13			

WEATHER DATA

DATE	10/17/81 →									
TIME	1400	1430	1500	1530	1600	1630	1700	1730		
TEMP. OUTSIDE WET Min. / DRY Max.	55/65	55/66	55/69	55/71	52/70	55/70	55/70	55/69		
TEMP. INSIDE Wet / Dry	55/63	57/72	57/73	56/73	56/73	56/72	56/72	56/71		
REL. HUMIDITY OUTSIDE Min./Max.	54	51	41	36	28	39	41	44		
IN REL. HUMIDITY	61	40	38	34	34	37	37	39		
WIND Speed (0-10)	1	1	1	1	2	2	1	1		
Direction	SW	SW	SW	SW	SW	SW	SW	SW		
FUEL STICK OUTSIDE UNIT	14	14	135	135	13	13	13	135		
FINE (5-12) FUEL MOISTURE										
SPREAD (8-3)										
INTENSITY (64-28)										
IGNITION (58-5)										
(*) Time Started										
(✓) Outside Unit										

PROJECT UNIT MAP



Job Hazard Analysis — X Yes ___ No

E.A.R.

Fire Mgt. Objectives	X Yes	___ No
Soil Resource Considerations	X Yes	___ No
Watershed Mgt. Considerations	X Yes	___ No
Esthetic Considerations	X Yes	___ No

Distance to Crescent City S.S.A. _____ Miles

Distance to Eureka S.S.A. _____ Miles

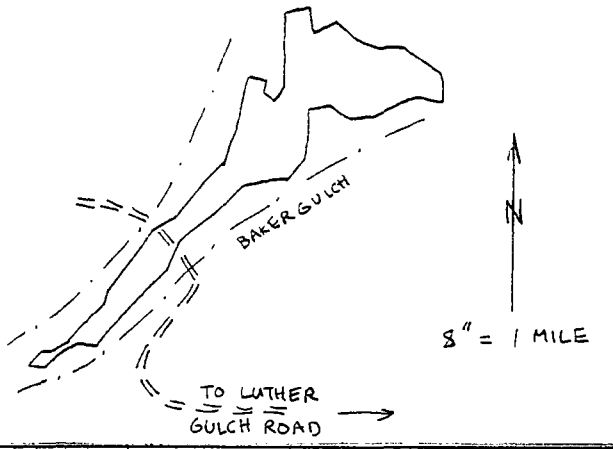
Distance to Rogue River S.S.A. _____ Miles

Distance to Central Valley S.S.A. _____ Miles

Average Area Elevation X Below 3000 ___ Over 3000

"No" Answers Explained on Reverse

FIGURE 10 BD CARD AFTER TREATMENT



USDA - FOREST SERVICE

REFORESTATION ACTIVITY RECORD

(See R-5 Supplement to FSM 2496.3)

PROJECT NAME	ACRES	COMPT. NAME
BAKER GULCH J	16	KEMPER GULCH

COMPT. NO.	STAND NOS.	FUND	CO. CODE
209	31	RI	93

COMP. CODE	Prod. Class	FOR. TYPE	BACKLOG
	5		

PRESCRIPTION:
INTERPLANT DF (8'x8') WITH 1 SCALP FOLLOWED BY HERBICIDE APPLICATION AROUND CROP TREES AND SEEDLINGS. PLANT DF. Herbicide: Atrazine (4# AI), Dalapon (6# AI), and 2,4-D (3# AE) per acre in water carrier at 20 gal per sprayed acre. Treat 4.5' square around selected crop trees on a 10'x10' spacing.

PRESCRIPTION BY: David Hartman — DATE: 11/79

TREATMENT LOG:
INTERPLANTED: 5,775 DF (2-0, 202-301:20-05-52-0-0000-66) ON 8'x8' WITH 1' SCALP STARTED ON 4-28-80, FINISHED ON 4-29-80, WEATHER WAS CLEAR AND HOT, SOIL VERY DRY, SOIL TEMP. 65-85° F. REPLANTING NOT RECOMMENDED AS AREAS OF GOOD SOIL ARE ALREADY STOCKED.

Treated 9 APR 80 Atrazine Dalapon, 2,4-D

AGGREGATION DESCRIPTIONS	AG NO.	% STAND	LAYER	% Cover	SPECIES COMPOSITION Symbol	%	Symbol	%	Symbol	%	Basis	B.A./A. (ft.²)	HT. (ft.)	D.B.H. (in.)	STEMS /ACRE	AGE
EXISTING			1													
			2													
			3													
			1													
			2													
			3													
			1													
			2													
			3													
PLANNED			1													
			2													
			3													
			1													
			2													
			3													
			1													
			2													
			3													

SITE PREP. CONTRACTOR: ROBERT GRATON — DATE: 4/4/80

CONTRACT NO.	COR	INSPECTOR
53-91W8-0-2633	DAVID HARTMAN	L BRANNON

PLANTING CONTRACTOR: GREEN SIDE UP, INC. — DATE: 3/6/80

CONTRACT NO.	COR	INSPECTOR
52-91W8-0-2605	DAVID HARTMAN	MAERCKLEIN

☆U. S. GPO: 1977—792-043

R5-2400-203 (ISS. 6/77)

COORDINATION INFORMATION

MGM'T DIRECTION:

WILDLIFE: NEARLY 50% OF PONDEROSA PINE IN THIS UNIT HAVE BEEN SEVERELY BROWSED BY PORCUPINES, CONTROL RECOMMENDED

REC. & VRM:

FUELS MGM'T:

SOILS: ROCKY, HARSH UNIT

RANGE:

CULTURAL:

WATER: 100' BUFFER ON ALL RUNNING WATER, DOMESTIC USE ON BAKER GULCH (LORETTA WALKER)

SAFETY:

REMARKS: GRASS COMPETITION IS STILL A PROBLEM

E.A.R.	PREPARED BY:	DATE	APPROVED BY:	DATE
	DAVID MAERCKLEIN	2/80	MacWILLIAMS	3/7/80

CHEMICAL USE RECORD

PLAN
- Target Species: GRASS DEERBRUSH FORBS BLACKBERRIES
- Herbicide: 2,4-D, ATRAZ., DALAP. — Rate: 3/4/6
- Carrier: WATER — Thickner: NA
- E.P.A. No. — Date FWGPM Approved
- Application Method: HAND SPRAY

Contract
- Contractor: ROBERT GRATON — Contract No.: 0-2633
- Application Date: 4/9/80 — Time Start: 11 — Time Finish: 1800
- Method of Application: HAND SPRAY

CHEMICAL
- Name: ATRAZINE, DALAPON, 2,4-D
- % Active Ingredient: 80%, 74%, 4# AE/GAL
- Trade Name: AATREX 80W, DOWPON M, WEEDONLV 4
- Manufacturer: CERBAGIGY, DOW, ANCHEM — Lot No.
- Name of Person Handling Chemical: ROBERT GRATON

MIX
- Carrier: WATER — Date Mixed: 9 APR 80
- Gal. Mix Per Acre: 20 — Rate Per Acre: 4/6/3
- Thickner: NA — Mix Rate/100 Gal.: 25/30/3.75

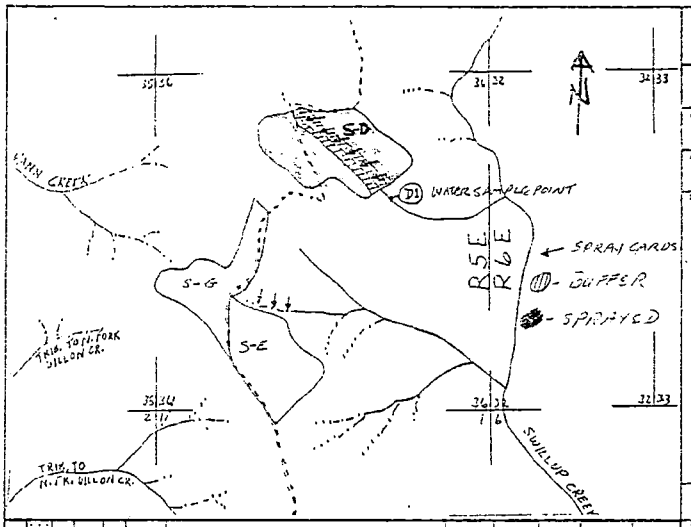
PERSONNEL

JOB	NAME	EXPERIENCE
C.O.R.	HARTMAN	4
Inspector	BRANNON	5
Helitack		

WEATHER

Time	Wind Speed	Direction	Dry Bulb	Wet Bulb	Rel Hum.
1300	5	S	55°		

FIGURE 11 REFORESTATION CARD AFTER TREATMENT



USDA - FOREST SERVICE

T.S.I. ACTIVITY RECORD
(See R-5 Supplement to FSM 2496.3)

PROJECT NAME	ACRES	COMPT. NAME
Swillup D	40-Net	Swillup

COMPT. NO.	STAND NOS.	FUND	CO. CODE
257	32	KV	93

COMP. CODE	Prod. Class	FOR. TYPE	BACKLOG
Std	4	DF	Aerial Spray

PRESCRIPTION:
The current heavy competition is expected to increase in the next few years unless controlled. Brush height is too large for backpack spray or hand grub. Aerial spray 3# AE 2,4-D in water per acre in late Aug. or Sept. Buffer draw and fell snags. Survey release effectiveness in the fall of 1983.

PRESCRIPTION BY: David Hartman — DATE: 8/80

TREATMENT LOG:
Some light (0-2) winds up to 20. 4 of 20 spray cards had a few spots. Water samples 30, 60, & 90 minutes post spray contained 1.0, 1.8, and 1.1 ppb 2,4-D (UMPQUA RESEARCH) NO STORMFLOW

CONTRACTOR: Evergreen Helicopters — DATE: 8/24/81
CONTRACT NO.: 1-2926 — COR: D. Hartman — INSPECTOR: B. Ronsse

AGGREGATION DESCRIPTIONS

	AG NO.	% STAND	LAYER	% Cover	SPECIES COMPOSITION Symbol	%	Symbol	%	Symbol	%	Basis	B.A./A. (ft.²)	HT. (ft.)	D.B.H. (in.)	STEMS /ACRE	AGE
EXISTING	A100		1	HW	CLO	64	BO	17	CH	8			4.0		349	
			2	Con	PP	58	DR	30	WF	11			3.0		182	
			3	B	Der	81	HU	10	HZ	5			1.9		993	
			1													
			2													
			3													
			1													
			2													
			3													
PLANNED			1													
			2													
			3													
			1													
			2													
			3													

GPO: 1977-792-044

RS-2400-204 (ISS. 6/77)

COORDINATION INFORMATION

MGMT DIRECTION: Post unit for 2 weeks. Use low-drift nozzels. Stop spraying when temperature exceeds 80°F or wind exceeds 5 MPH. Limit batch truck speeds to 40MPH on paved roads and 15 MPH on logging roads when loaded.

WILDLIFE: Leave any snags over 12" DBH

REC. & VIEW:

FUELS MGMT:

SOILS:

RANGE:

CULTURAL:

WATER: Buffer Draw
Sample water around expected peak
Sample water during runoff-producing stormflow if within 30 days of spray — NO STORMFLOW

SAFETY: refer to EA

REMARKS:

E.A.R.	PREPARED BY:	DATE	APPROVED BY:	DATE
	D. Hartman	6/81	James E. Rathbun	7/13/81

CHEMICAL USE RECORD

PLAN
- Target Species: DER, HZ, CH
- Herbicide: 2,4-D — Rate: 3# AE/Ac
- Carrier: water — Thickner: Raindrop Nozzles
- E.P.A. No.: 264-20 — Date FWGPM Approved: 8-5-81
- Application Method: Aerial Spray

Contract
- Contractor: Evergreen Helic. — Contract No.: 1-2926
- Application Date: 8-24-81 — Time Start: 09:39 — Time Finish: 10:56
- Method of Application: Aerial Spray

CHEMICAL
- Name: 2,4-D
- % Active Ingredient: 64%
- Trade Name: LV-4
- Manufacturer: AM-CHEM — Lot No.: 5-76161
- Name of Person Handling Chemical:

MIX
- Carrier: water — Date Mixed: 8-25-81
- Gal. Mix Per Acre: 10 — Rate Per Acre: 3# AE
- Thickner: Raindrop Nozz. — Mix Rate/100 Gal.: 30 Qts.

PERSONNEL

JOB	NAME	EXPERIENCE
C.O.R.	D. Hartman	5 Yrs.
Inspector	F. Jackson	3 Yrs.
Helitack	B. Ronsse	7 Yrs.

FIGURE 12 TSI CARD AFTER TREATMENT

WEATHER

Time	Wind Speed	Direction	Dry Bulb	Wet Bulb	Rel Hum.
09:30	0	-	55	51	76
10:30	0	-	58	53	72
10:56	0-2	S-SE	58	54	

FOREST SERVICE U.S.D.A.

STAND RECORD CARD

(SEE FSM-2496.3)
R-3 2400-305 (REV. 3/77)

COMPARTMENT NUMBER: HUNDREDS | TENS | UNITS

STAND NUMBER: HUNDREDS | TENS | UNITS

ACTIVITIES | ACCOMP | PLANNED

REGULAR REFOR. | MAINT. REFOR. | THINNING | RELEASE

BACKLOGS

LOCATION: COMP. NAME KEMPER GULCH COMP. NO. 209

STAND NO. 31 COOR. (E-W) (N-S)

T. 17N R. 7E S. 15 COUNTY NO. 93 MAP NO.

CHARACTERISTICS: ACRES 16 ELEV. 2000

ASPECT SW SLOPE % 10-55 STRATUM

SITE: INDEX (MEASURED) ESTIMATED) SPECIES PP, DF, IC

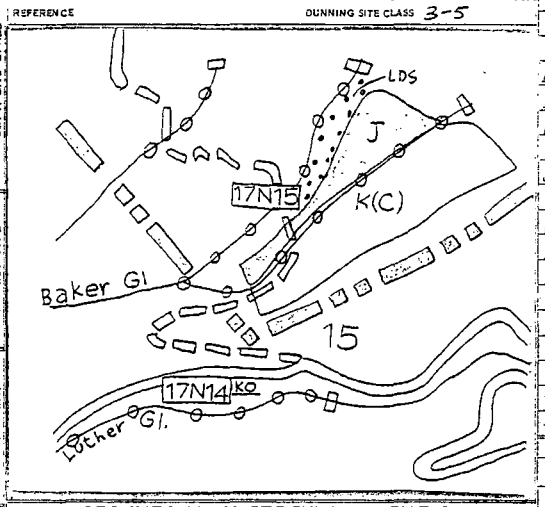
REFERENCE DUNNING SITE CLASS 3-5

CU FT. SITE CLASS: 1 (225+) | 2 (165-224) | 3 (120-164) | 4 (85-119) | 5 (50-85) | 6 (20-49) | 7 (0-20)

FOREST TYPE: PP | (DF) | TRUE FIR | HDW. | OTHER

COMPONENT: (STANDARD) | SPECIAL | MARGINAL | UNSUITABLE | OTHER

SPECIES RECORD: (PP) | JP | SP | (DF) | WF | RF | OTHER



ACTIVITIES

PRESCRIBED BY	PRESCRIBED MM-YY	DESCRIPTION WORK PROCESS	DESCRIPTION METHOD	PLANNED FUND	PLANNED MM-YY	PLANNED ACRES	ACCOMPLISHED MM-YY	ACCOMPLISHED ACRES	ACCOMPLISHED INIT.
		111		1	0771	16	0771	16	
		492	300	2	1072		1072		
		431	100	2	03731		0373		
		470	100	1	1073		1073		
		470	100	1	0975		0975		
		036	630	1	0779		0779		
DH	0979	442	110	1	0979		0380		DH
DH	0979	492	830	1	0979		0480		DH
DH	0580	035	630	2	1080		1180		DH
DH	1180	442	110	2	0481		0481		LB
DT	0481	035	630	2	1081		NOT ACCOMPLISHED		
DT	1281	035	620	2	1281		1281	16	DT
DT	0282	492	830	2	0482				
DT	0282	035	630	2	1082				

HARVESTS: CC | SEED STEP | SR STEP | SEL. | THIN | SANI | OTHER

PREP.: MARK | PLANT | SITE PREP. | PRECOM THIN | RELEASE | SLASH DISP. | EXAM. | OTHER

PLANTING RECORD

SEED LOT NUMBER	# TREES	NUR.	AGE CLASS	TYPE	TREES /ACRE	MM-YY
PP 518-1 PLACERVILLE	—	—	—	—	12X12	0373
202-301.20-05-52-0-0000-66	4.5	HUM	2.0	1	8X8	0380
202-301.25-05-52-0-0000-66	5.8	HUM	2-0	1	—	0481

REGENERATION STOCKING SURVEYS

SURVEY DATE	TOTAL CROP P	TOTAL CROP ~~N~~	P	N	P	N	P	N
10/73	144							
9/75	58							
7/79	107	90						
11/80	158	128						

PLANTING: DECADE | YEAR

PRESCRIPTION:

1969-70 CLEARCUT, BURN, AND PLANT

10/73 REPLANT NOT RECOMMENDED (CAIRSIE-CREW LEADER)

9/75 GRASS AND DEERBRUSH COMP., SW EXP., LOW ELEV., NEED VERY EARLY REPLANT OR PLANT IN FALL FOR BETTER SOIL MOISTURE

6/76 REPLANT NOT RECOMMENDED (HIGGINS-CREW LEADER)

7/79 INTERPLANT IN 1980 WITH DF AND POSSIBLY GRUB (MAERCKLEIN-REFORESTATION)

8/79 FULL PLANT SPRING 1980 WITH PP IF AVAILABLE, DF IF NOT, FOLLOWED BY ATRAZINE, DALAPON, HAND SPRAY IN SPRING 1980 (HARTMAN-SILVICULTURE)

11/80 INTERPLANT WITH PP ON ALREADY SCALPED SPOTS, GRASS SPRAY UNNECESSARY (NUGENT-CREW LEADER)

11/80 INTERPLANT 1981 WITH WIDE SCALP OR GRASS SPRAY, MAIN CONCERN IS CONTINUED LOSS OF PP DUE TO PORCUPINE, PLANT DF.

4/81 REPLANTING NOT RECOMMENDED BECAUSE OF ROCKY SOIL, GOOD SOIL AREAS ARE ADEQ. STOCKED. (GARRAHAN - PLANTING INSPECTOR)

11/81 HAND SPRAY ATRAZINE, DALAPON, 2,4-D IN SPRING 1982 (THANG-REFORESTATION)

AGGREGATION DESCRIPTION

AGG NO	% STAND	LAYER	% COVER	SPECIES COMPOSITION SYMBOL	%	SYMBOL	%	SYMBOL	%	BASIS	B.A./A. (FT²)	HT. (FT.)	DBH (IN.)	STEMS / ACRE	GROWTH (FT³)(FT³)	AGE	NOTES
		1															ACME 4152430
DATE (R-P)		2		TO													TAN OAK SPROUTS PREDOMINATE BRUSH
10/73		3		PP								0.6		144			
		1															
DATE (R-P)		2															GRASS IS DOMINATE ON THE SITE
9/75		3		PP								0.8		58			
		1		DER													
DATE (R-P)		2		CLO													< 2% PERENNIAL GRASS
6/76		3		PP	60	DF	35	SP	5			2		255			
		1		DER	96	HZ	4					4		448			GRASS VERY DENSE BELOW ROAD, BRAKEN FERN AND DEERBRUSH ABOVE ROAD
DATE (R-P)		2		CLO	69	BO	24	WI	7			6		134			
7/79		3		PP	80	DF	20					6		107		8	
		1		DER	94							3.7		823			
DATE (R-P)		2		CLO	65	OWO	19	BO	15			5.6		152			58% GRASS
11/80		3		PP	50	DF	32	IC	18			6.4		158		11	
		1															
DATE (R-P)		2															
		3															
		1															
DATE (R-P)		2															
		3															

FIGURE 13 STAND CARD AFTER TREATMENTS

Primary Contributors

Fred Ritchey	Sale Planning Officer
Al Durazo	Marking Crew Foreman
Dick Boothe	Sale Planning Officer
Donn Geisinger	Planning Forester
Judy Hahn	Appraisal Specialist
Kelly Wilson	Sale Administration Officer
Jim Gould	Sale Administrator
Bruce Silvey	Harvest Inspector
George Bernhard	Silviculturist
Donn Thane	Reforestation Forester
David Hartman	Stand Tending Forester
Bill Jones	Silviculturist
Dave Fields	Fuels Management Officer
Frank Jackson	Hydrologist
Pat Burchill	Records Keeper
George Harper	District Ranger